DCA13MR002
Conrail - Shared Assets
Derailment/Hazardous Material Release
Paulsboro, New Jersey
November 30, 2012

Hazardous Materials

Group Factual Report

ATTACHMENT 12 - CERTIFICATE OF CONSTRUCTION FOR OCPX 80234

APPLICATION FOR APPROVAL and CERTIFICATE OF CONSTRUCTION

APPROVAL REQUESTED OF: ☐ Precedent ☑ AAR Tank Car Committee Ballot — AAR NO. A906054 B

Applicant TRINITY INDUSTRIES, INC P.O.BOX 568887 DALLAS, TX 75356-8887 — Applicant's No. 9031 — DATE: 7-16-90

APPLICATION FOR APPROVAL OF: ☑ Construction ☐ Conversion ☐ Alterations ☐ Welded ☐ Repairs ☐ (Other) _____

Reporting Marks and Car Numbers OCPX 80001 - 80300 — Number of Cars 300

1. Tank Specification DOT 105A300W
2. Stenciled Specification DOT 105J300W
3. Commodity VINYL CHLORIDE
4. Initial Commodity 7.60 @ 68°F lb/gal. (_____ kg/L)

TANK SHELL:

5. Full Water Cap'y 24,876 gal (_____ L)
6. Dome Cap'y or Outage, * gal. (_____ L)
7. Material TC128B NORM. Lining NONE
   Head thickness 9/16 MIN. in. (_____ mm)
   Shell thickness 9/16 in. (_____ mm)
8. Inside Diameter, 119 in. (_____ mm)
9. Head (Main 2:1 ELLIP. in. (_____ mm)
   Radii) Knuckle N.A. in. (_____ mm)
10. Test Pressure, 300 psi (_____ kPa)
11. Insulation, 3-1/2 in. (_____ mm) Kind 0.65" FIBERFRAX WITH 4" FIBERGLASS COMPRESSED TO 3-1/2" TOTAL THICKNESS.
    Thermal Conductivity 0.256 Btu-in/hr.-ft.²-F (_____ kJ · mm/h · m² · °C)

SAFETY RELIEF DEVICES:

12. Type VALVE Number 1
    Start to Discharge 247.5 psi (_____ kPa)
13. Flow Cap'y, (Air) Actual 31820 cfm (_____ m³/s)
14. Flow Cap'y, (Air) Reqd 18751 cfm (_____ m³/s)
15. Tank Surface Area 1469 ft² (_____ m²)

CAR STRUCTURE:

16. Underframe Type STUB SILL
17. Estimated Light Wt. 83,300 lb (_____ kg)
18. Center of Gravity Loaded 89.9** in (_____ mm)
19. Rail Load Limit 263,000 lb (_____ kg)
20. Truck Capacity, Tons 100
21. AAR Clearance Diagram Pl. C

NOTES: * OUTAGE PER DOT 173.314: 87% MAXIMUM PERMITTED FILLING DENSITY. ** TRUCK CENTERS = 37'-1-1/2". COMMODITY STENCIL: "VINYL CHLORIDE" IN 4" MINIMUM HEIGHT LETTERS.

Original Certificate Number _____
Builder/Date _____
Former Lading _____

The Following Drawings Apply	Drawing Number	Precedent/Certificate: Drawing Number	Precedent/Certificate: Application/Certificate
22. General Arrangement	D-40429 B		
23. Arrangement, Tank	D-42512 C SH. 1		
24. Reinforced Openings	D-42512 B SH. 2		
25. BOLSTER AND DRAFT SILL ARRANGEMENT	D-140496 D		
26. Fittings Arrangement D-44534C SH.1 &	D-44534 A SH. 2		
27. Manway Assembly	D-340032 B		
28. Protective Housing	D-143559 A		
29. Venting, Loading and Discharge Valves	D-44534 C SH. 1		
30. Safety Relief Devices MIDLAND	A-34247		A879008
31. Heater Systems	NONE		
32 Gaging Devices MIDLAND	B-612		A869013
33. Bottom Outlet Valve	NONE		
34. JACKET ANCHOR	D-46344		A896059A
35. MANWAY COVER	D-243777		
36 CALCULATIONS	D-343915		

REVISIONS:

7-31-90 REV. A: REVISE DRAWINGS D-42512 SH.1&2.

9-26-90 REV. B: REVISE DRAWINGS D-40429A, D-42512B SH.1, D-42512A SH.2, D-44534 SH.1&2, D-340032A.

APPLICATION BY WILLIAM R. BITTING

I certify that the foregoing conforms to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards

SIGNATURE **PII**

TITLE DESIGN ENGR. - RAIL PRODUCTS DIVISION

APPROVAL AAR Tank Car Committee Date Approved 10/8/90 **PII**, Secretary

(Signature) on behalf of Tank Car Committee

CERTIFICATE OF CONSTRUCTION: The cars enumerated below conform to the above approved description and to all applicable DOT and AAR requirements, including Specifications, Regulations, Rules of Interchange and the DOT Railroad Safety Appliance Standards. Copy of this Certificate of Construction will be furnished to the owner and others required by 49 CFR Part 179.5 before these cars are placed in service.

Initials and Car Numbers:

OCPX 80001 - OCPX 80300

Date 11-15-91

By **PII**

Title **PII**

Form AAR 4-2 Revised 10-17-86

Association of American Railroads
Manual of Standards and Recommended Practices
Specifications for Tank Cars

EXHIBIT R-1 TRINITY FILE: 9031

Report of WELDED REPAIRS, ALTERATION or CONVERSION

1. To: Secretary, Mech. Div.—AAR
Bureau of Explosives—AAR
Car Owner

2. Reporting marks and number or numbers OCPX 80175

3. Reported by TRINITY INDUSTRIES, INC. 4. Date 11-5-90

5. Performed at TRINITY INDUSTRIES, INC.- DENTON, TEXAS - PLANT #23

6. Report of ☐ Conversion ☐ Alterations ☒ Welded repairs ☐ Other

7. Tank built date 11/90 8. Built by TRINITY INDUSTRIES, INC.

9. Current AAR Certificate No. A906054B 10. Commodity VINYL CHLORIDE (after this work)

11. Constructed tank spec. DOT 105A300W 12. Tank spec. DOT 105A300W (after this work)

13. Stenciled spec. DOT 105J300W

14. Repairs: (Furnish details on back page)

A. Nature of location of defect - DEFECTIVE GROOVE IN MANWAY NOZZLE RING FLANGE.

B. Cause - MACHINING ERROR.

C. Repair procedure - REPAIR BY WELDING IN ACCORDANCE WITH DRAWING D-40407.

15. Alteration or conversion:

A. Type

B. Procedure

C. Materials

16. Pertinent precedent approved drawings

	DRAWING TITLE	DRAWING NUMBER	CERTIFICATE NUMBER
A.	REPAIR PROCEDURE	D-40407	D906045
B.			
C.			
D.			
E.			
F.			

17. Revisions and Notes:

18. The cars enumerated above conform to all precedent approvals mentioned and to all applicable DOT and AAR requirements, including specifications, regulations, rules of interchange and the DOT safety appliance standards.

By: **PII** Title: Quality Assurance Supervisor
PLANT 23
DENTON, TX.

Rev. 10-17-86